

# Receiving Report

Date: 14-12-19

Batch No: 131139

Supplier: East Coast Aviation

Dart P/O: 26837

Packing Slip: Yes ☐ No ☐  
 Invoice: Yes ☐ No ☐  
 Receipt: Cash ☐ Cr ☐  
 New Supplier Yes ☐ No ☐

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection ☐ N/A ☒  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

*SP*

Production/Admin:

Date \_\_\_\_\_

Received/Costing \_\_\_\_\_

Initial \_\_\_\_\_

Location \_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO26837**

Purchase Order Date 12/17/2014

PO Print Date 12/17/2014

Page Number 1 of 4

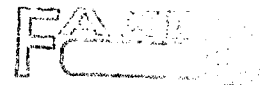
**Order From :**

VU-EC001

EAST COAST AVIATION SUPPLIES, INC.  
399 EAST DRIVE  
MELBOURNE, FLORIDA 32904  
USA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA



**Contact Name**

**Vendor Phone** 1-321-727-0047

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS21209-F415	Heli-Coil	12/19/2014 Yes 12/19/2014		50.00 ✓ Each	\$0.25	\$12.50
Line Total:							\$12.50
2	MS21209F1-10	HELI COIL	12/19/2014 Yes 12/19/2014		50.00 ✓ Each	\$0.26	\$13.00
Line Total:							\$13.00
3	AN4-16A	Bolt	12/19/2014 Yes 12/19/2014	FN	200.00 ✓ Each	\$0.28	\$56.00

SP 14-18-19.

Note:

12/17/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID: PO26837

Purchase Order Date 12/17/2014

PO Print Date 12/17/2014

Page Number 2 of 4

Order From : VU-EC001

EAST COAST AVIATION SUPPLIES, INC.  
399 EAST DRIVE  
MELBOURNE, FLORIDA 32904  
USA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone 1-321-727-0047

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Line Total: \$56.00

4	AN4-17A	Bolt	12/19/2014	FN	100.00	\$0.28	\$44.80
			Yes		Each		
			12/19/2014				

Line Total: \$44.80

5	AN4-21A	Bolt	12/19/2014		75.00	\$0.38	\$28.50
			Yes		Each		
			12/19/2014				

Line Total: \$28.50

6	AN5-14A	Bolt	12/19/2014	FN	25.00	\$0.52	\$13.00
			Yes		Each		
			12/19/2014				

Line Total: \$13.00

80 14-18-19.

Note:

12/17/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO26837**

Purchase Order Date 12/17/2014

PO Print Date 12/17/2014

Page Number 3 of 4

**Order From :**

VU-EC001

EAST COAST AVIATION SUPPLIES, INC.  
399 EAST DRIVE  
MELBOURNE, FLORIDA 32904  
USA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

1-321-727-0047

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

7	AN526-1032R9	Screw	12/19/2014 Yes 12/19/2014	100.00 Each	✓	\$0.10	\$10.00
<b>Line Total:</b>							<b>\$10.00</b>
8	AN5-32A	Bolt	12/19/2014 Yes 12/19/2014	100.00 Each	✓	\$0.68	\$68.00
<b>Line Total:</b>							<b>\$68.00</b>
9	AN5C11A	Bolt	12/19/2014 Yes 12/19/2014	50.00 Each	✓	\$1.74	\$87.00
<b>Line Total:</b>							<b>\$87.00</b>
10	AN5C7A	BOLT	12/19/2014 Yes 12/19/2014	100.00 Each	✓	\$0.95	\$95.00

**Note:**

8214-18-19.

12/17/2014



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO26837

Purchase Order Date 12/17/2014

PO Print Date 12/17/2014

Page Number 4 of 4

**Order From :**

VU-EC001

EAST COAST AVIATION SUPPLIES, INC.  
399 EAST DRIVE  
MELBOURNE, FLORIDA 32904  
USA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 1-321-727-0047

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

**Line Total:** \$95.00

11 71401-45

PROCUREMENT  
QUALITY CLAUSES

12/19/2014

1.00

\$0.00

\$0.00

No

**Procurement Quality Clauses**

12/19/2014

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

**Line Total:** \$0.00

**PO Total:** \$427.80

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 1

Change Date: 12/17/2014

# East Coast Aviation Supplies, Inc.

399 East Drive  
Melbourne, FL 32904  
USA  
Ph: 321.727.0047, Fax: 321.727.7331

## Packing Slip

Original

Invoice #: 509365  
Date Printed: 12/17/2014  
Time: 5:11:50 PM  
# of Items: 10  
Page: 1

### To:

DART AEROSPACE LTD.  
ACCTS. PAYABLE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A1K7  
CANADA

ATTN: CHANTAL LAVOIE  
Ph: 613.632.3336 Fax: 613.632.5246

### Ship To:

DART AEROSPACE LTD.  
ATTN: RECEIVING  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A1K7  
CANADA

Invoice Date: 12/17/2014

Terms: NET 30

Weight: 29

Ship Via: FED.EX.P1

Order Date: 12/17/2014

Cust. PO#: PO26837

# of Boxes: 1

Ship Date: 12/17/2014

FOB: MELBOURNE, FL

Shipment #:

Sales Order: 456900

Customer #: 16754

AWB: 6244 7801 8920

ECAS Contact: LUIS

Item	Part Number/Description	Shipped	BackOrd	CD	Unit Price	UoM	Total Amt
1	MS21209F4-15 INSERT	✓ 50.00	0.00	NE			
2	MS21209F1-10 INSERT	✓ 50.00	0.00	NE			
3	AN4-16A BOLT UNDRILLED	✓ 200.00	0.00	NE			
4	AN4-17A BOLT UNDRILLED	✓ 60.00	0.00	NE			
5	AN4-21A BOLT UNDRILLED	✓ 75.00	0.00	NE			
6	AN5-14A BOLT UNDRILLED	✓ 25.00	0.00	NE			
7	AN526-1032R9 SCREW	✓ 100.00	0.00	NE			
8	AN5-32A BOLT UNDRILLED	✓ 100.00	0.00	NE			
9	AN5C11A BOLT UNDRILLED S/S	✓ 50.00	0.00	NE			
10	AN5C7A BOLT UNDRILLED S/S	✓ 100.00	0.00	NE			

SP14-12-19

Special Instructions:

# East Coast Aviation Supplies, Inc.

## CERTIFICATE OF CONFORMITY

No: 509365

Bill To:

Ship To:

ORIGINAL

DART AEROSPACE LTD.  
ACCTS. PAYABLE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A1K7

DART AEROSPACE LTD.  
ATTN: RECEIVING  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A1K7

Customer PO	Ship Date	Airway Bill Number
PO26837	12/17/2014	6244 7801 8920

Part No.	Description	Cond	Qty	S/L
MS21209F4-15	INSERT	NE	50	13
MFR: HELICAL	ECCN#: 9A991			
LOT: W115971/3-22-12	SCHB#: 9606.10.1000			
MS21209F1-10	INSERT	NE	50	23
MFR: KATO	ECCN#: 9A991			
LOT: C18515	SCHB#: 9606.10.0000			
AN4-16A	BOLT UNDRILLED	NE	200	20
MFR: AFC	ECCN#: 9A991			
LOT: 23009	SCHB#: 7318.15.2000			
AN4-17A	BOLT UNDRILLED	NE	160	16
MFR: AFC	ECCN#: 9A991			
LOT: 22221	SCHB#: 7318.15.2000			
AN4-21A	BOLT UNDRILLED	NE	75	18
MFR: AFC	ECCN#: 9A991			
LOT: 22712	SCHB#: 7318.15.2000			
AN5-14A	BOLT UNDRILLED	NE	25	25
MFR: MAC	ECCN#: 9A991			
LOT: 38330	SCHB#: 7318.15.2000			
AN526-1032R9	SCREW	NE	100	21
MFR: CRESCENT	ECCN#: 9A991			
LOT: 70449	SCHB#: 7318.15.4000			

CONDITIONS: NE - New NS - New Surplus OH-Overhauled RP-Repaired SV-Serviceable

We hereby certify that the items that are a part of this Purchase Order have been visually & dimensionally found to conform to all applicable standards, drawings & specifications. The liability of ECAS is limited to replacement of any item which is rejected because of a defect in material or workmanship if notified within 30 days & liability shall not exceed the invoice value. Such replacement shall constitute satisfaction of all liability.

Signed:

For and on behalf of EAST COAST AVIATION SUPPLIES, INC.

Insp.

#2

Inspectors Stamp

# ***East Coast Aviation Supplies, Inc.***

## **CERTIFICATE OF CONFORMITY**

No: 509365

Bill To:

Ship To:

ORIGINAL

<b>DART AEROSPACE LTD.</b> <b>ACCTS. PAYABLE</b> <b>1270 ABERDEEN STREET</b> <b>HAWKESBURY, ON K6A1K7</b>	<b>DART AEROSPACE LTD.</b> <b>ATTN: RECEIVING</b> <b>1270 ABERDEEN STREET</b> <b>HAWKESBURY, ON K6A1K7</b>
--	---

Customer PO	Ship Date	Airway Bill Number
PO26837	12/17/2014	6244 7801 8920

Part No.	Description	Cond	Qty	S/L	
AN5-32A	BOLT UNDRILLED	NE	100	19	
MFR: AFC	ECCN#: 9A991				
LOT: 15137	SCHB#: 7318.15.2000				
AN5C11A	BOLT UNDRILLED S/S	NE	50	14	
MFR: _MAC	ECCN#: 9A991				
LOT: 62261	SCHB#: 7318.15.2091				
AN5C7A	BOLT UNDRILLED S/S	NE	100	18	
MFR: _MAC	ECCN#: 9A991				
LOT: 55814	SCHB#: 7318.15.2091				

CONDITIONS: NE - New NS - New Surplus OH-Overhauled RP-Repaired SV-Serviceable

We hereby certify that the items that are a part of this Purchase Order have been visually & dimensionally found to conform to all applicable standards, drawings & specifications. The liability of ECAS is limited to replacement of any item which is rejected because of a defect in material or workmanship if notified within 30 days & liability shall not exceed the invoice value. Such replacement shall constitute satisfaction of all liability.

Signed:

For and on behalf of EAST COAST AVIATION SUPPLIES, INC.

Inspectors Stamp

**Insp.**  
**#2**



# HELICAL WIRE, INC.

www.helicalwire.com  
26 CASH DRIVE  
CARSON CITY, NEVADA 89706



## Packing List

DATE	INVOICE #
10/5/2012	P152338

BILL TO
MS INSERTS & FASTENERS CORP. 24310 GARNIER ST. TORRANCE, CA. 90505
<b>DFARS COMPLIANT</b>

SHIP TO
MS INSERTS & FASTENERS CORP. 24310 GARNIER ST. TORRANCE, CA. 90505

P.O. NUMBER	TERMS	SHIP DATE	SHIP VIA	UPS	FEDEX	FOB	E-MAIL	INV
4006458	Net 30	10/5/2012	UPS Gro...	938795	0904-1788-6	OP	ap@msinsert...	email
ITEM	ORDERED	SHIPPED	B/O	DESCRIPTION				
MS21209F4-15	50000	25,000 ✓	0	<p>.250-28x.375 Locking Insert P/N 1428L0375 LOT W115971 / 3-22-12 C/R 3591-4CN0375</p> <p>UPS COLLECT: 1Z 23F 50F 03 6668 9846</p> <p>CONFORMANCE CERTIFICATION - CAGE 0EE83 OPERATES UNDER THE QUALITY SYSTEM - ISO 9001:2008 We hereby certify the material and parts shipped on your Purchase Order listed above and our Packing List Number listed above, have been manufactured in the United States and is in conformance with one or more of the following specifications: AS7245, NASM33537 Rev. 1, NASM8846, NASM21209, REV. 2, NASM122076 thru NASM122275 REV. NEW, NASM124651 thru NASM124850 REV. 1, MS21208, BAC112AE... AS3080, AS3081, AS3082, AS3083, AS3094, AS3095, AS3096, AS3097, N913P, N926P, N926AP, N926BP, N926CP, MA1565, MA3279 Rev. B, MA3280 Rev. B, MA3281 Rev. B, MA3329 Rev. C, MA3330 Rev. C, MA3331 Rev. C, AS7246, AMS7247, Armco Nitronic 60 UNS S21800, AMS 5848B, S-313-100, T.O. 44H1-1-117. Material certification to GSFC Spec 541-PG-8072.1.2. Material certifications reflect the heat treat lot and material composition of each shipment of wire used to manufacture the screw thread inserts, and are available upon request. All material is mercury free and pass RoHS compliance - Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. All material comply with the requirements of the European Union (REACH) legislation. Plating per Xylan (R) 5251/840 Black, AS5272, AMS-QQ-P-416, Type II or QQ-S-365, ASTM B 700. Tooling per A-A-59158. Product Manufactured by a small business in the United States of America. Specialty metal used in the manufacture of this product is DFAR compliant per DFAR 252.225-7014 (ALT.1) &amp; Deviation 2008-00002 DFARS 225.7002.. This manufacturer of the fastener is not currently listed as a debarred, suspended, or ineligible contractor on the current list of parties published by the U.S. Government, GSA.</p> <p>Quality Assurance Manager - Christopher J. Salinas</p>				
<p>RECEIVED</p> <p>OCT 8 2012</p> <p>COMPUTER ORDER</p> <p>156: 43651</p>				<p>CC: FM 93902</p>				

PAST DUE INVOICES WILL BE CHARGED FINANCE CHARGES AT THE RATE OF 1.5% PER MONTH ON THE UNPAID BALANCE. All claims for error, shortage, or damage must be made within 7 days after receipt. No returns on non-traceable or non-defective products.

ISO Certified  
9001:2008  
FM 93902



# PACKING LIST

MS INSERTS AND FASTENERS  
24310 GARNIER STREET  
TORRANCE, CA 90505

Pick Ticket Number	
2072684	
Pick Date	Page
4/1/2014 06:56:35	1 of 1
ORDER NUMBER	
1108306	

**Bill To:**  
EAST COAST AVIATION  
399 EAST DRIVE  
MELBOURNE, FL 32904  
USA  
321-727-0047

**Ship To:**  
EAST COAST AVIATION  
399 EAST DRIVE  
MELBOURNE, FL 32904  
US

JACKIE FRANCISCO

Customer ID: 202958

PO Number		Terms Description	
71612		Net 30 Days	
Order Date	Pick Ticket No	Primary Salesrep Name	Taker
4/1/2014 05:25:00	2072684	Helen Levasseur	HELEN.LEVASSEUR
Quantities		Item ID	UOM
Ordered	Shipped	Item Description	Unit Size

Delivery Instructions: UPS ACCT#316-5E0 ORANGE

Carrier: UPS-3 DAY SELECT COLLECT

Tracking #:

2,500	2,500	0	MS21209-F4-15	ACCEPTED	EA	1.0
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Order Line Notes: DFARS252.225-7014ALT.1 COMPL.  
SHIP MFG. C OF C W/PARTS  
SHIP TODAY 4/1/14 ORANGE

ISG Number: 48651

Qty: 2,500 EA

CONTROL NUMBER: LOT W115971/3-22-12 - HELICAL

ALL CLAIMS FOR ERROR, SHORTAGE OR DAMAGE MUST BE MADE WITHIN 7 DAYS AFTER RECEIPT OF GOODS.

MATERIALS MAY NOT BE RETURNED WITHOUT A "RETURN MATERIAL AUTHORIZATION" NUMBER.

SELLER DISCLAIMS ANY RESPONSIBILITY FOR MANUFACTURING OR FUNCTIONAL DEFECTS. HEREBY LIMITS EXPRESS OR IMPLIED WARRANTIES TO LIABILITY FOR THE COST OF REPLACEMENT OF THIS MATERIAL.

## CERTIFICATE OF CONFORMANCE

THIS IS TO CERTIFY THAT THE MATERIAL IN THIS SHIPMENT HAS BEEN PURCHASED, PACKAGED AND SHIPPED IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS / REQUIREMENTS OF THE PURCHASE ORDER.

x Signature

Quality Assurance Manager

Sales Order Number: 718553  
Finished Lot Number: 81471-07-004

# KATO FASTENING SYSTEMS - PACKING TICKET & CERTIFICATE OF COMPLIANCE

CUSTOMER CODE C1140

PAGE 1

DELIVERY TICKET

BILL TO Aircraft Fasteners International, LLC  
PO Box 66249  
Los Angeles CA 90066-0249  
USA

SHIP TO Aircraft Fasteners International, LLC  
13402 Beach Ave.  
Marina Del Rey CA 92092  
USA

CUSTOMER PO # / REFERENCE #	REQUESTED DATE	KATO SALES ORDER #	DELIVERY TICKET #	DELIVERY TICKET DATE
81471	08/30/12	72433	68015	07/25/12

LINE	ITEM NO. DESCRIPTION	ITEM GROUP ITEM TYPE	SHIPPING METHOD	QTY SHIPPED	UoM
1	TLF-3C-0190 MS21209F1-10, INSERT, TANGED, 10-32 X 1 D, BULK	CoilThread Inserts	UPS Ground Collect	100,000	Each

KATO Fastening Systems certifies that all CoilThread Inserts supplied on the above purchase order have met all inspection requirements set forth by KATO Fastening Systems and comply to all chemical and physical specifications.

In addition, CoilThread Inserts and tools are in conformance with the following Military and Aerospace Standards: NASM122076-122275 Rev 1 & NASM124651-124850 Rev 1 (formerly MS21208), NASM21209 Rev 2, NASMS33537, NASM8846 Rev 1, A-A-59158 Rev 98, MA3279 Rev B, MA3280 Rev B, MA3281 Rev B, MA3329 Rev C, MA3330 Rev C, MA3331 Rev C, MA1565 Rev A, MA1567 Rev B, and AS7245 Rev A.

Tangless CoilThread Inserts are in conformance with NAS1130 Rev 4, NA0276 Rev 2, and NASM8846. KATO Tangless CoilThread tools conform to all KATO design specifications.

Dry Film Lubricated Inserts comply with Aerospace Standard AS5272C Type I (formerly MIL-L-46010). Cadmium Plated Inserts comply to AMS-QQ-P-416C (formerly QQ-P-416). Silver Plated Inserts comply to Aerospace Specification AMS2411.

RoHS Compliance: KATO Fastening Systems does not use lead, mercury, cadmium, hexavalent chromium, PBB or PBDE in the manufacturing of Tangless and Tanged CoilThread Inserts and tools. Cadmium plating is offered by KATO Fastening Systems as an optional process in accordance to AMS-QQ-P-416B. Inserts with Cadmium plating are identified with a "Y" at the end of the Kato part number, a "P" at the end of the MS/NAS number, and the description will indicate Cadmium plating.

DFARS Compliance: KATO Tangless and Tanged CoilThread Inserts are manufactured by KATO Precision Ltd. in the UK. The UK is listed in section 225.872-1 as a Qualified Country.

No Mercury is used in the manufacturing of KATO CoilThread Inserts and Tools.

Country of Origin: KATO CoilThread Inserts are manufactured in the UK, with the exception of the new M2 Tangless Inserts which are manufactured in Japan. Inserts manufactured prior to 1995 were made in Japan or Singapore (tanged only). KATO-Kits are made in the USA. Hexatorq Hinges are made in Japan. All KATO tanged tools are manufactured in the USA. All KATO Tangless tools are manufactured in the USA with the exception of the CT16002-M series & 2CTSB-M series which are manufactured in Japan.

CoilThread Insert chemical and physical test reports, certifications, and other documents are on file and available for an additional charge. CAGE CODE: 0YC40, ECCN: EAR99, Export License: NLR

Chem/Phys Included: ☒ Yes ☐ No

Quality Assurance Representative: 

Cindy Slominski



## REMARKS:

81471 Based On Sales Orders 72433.

11836 FISHING POINT DRIVE, SUITE 400, NEWPORT NEWS, VA 23606  
PHONE: (757) 873-8980, FAX: (757) 873-4920, WEB: WWW.KATONET.COM

REV 080111

81471

Sales Order Number: 718553  
Finished Lot Number: 81471-07-004

**KATO FASTENING SYSTEMS - PACKING TICKET & CERTIFICATE OF COMPLIANCE**

CUSTOMER CODE C1140

PAGE 2

**DELIVERY TICKET**

**BILL TO** Aircraft Fasteners International, LLC  
PO Box 66249  
Los Angeles CA 90066-0249  
USA

**SHIP TO** Aircraft Fasteners International, LLC  
13402 Beach Ave.  
Marina Del Rey CA 92092  
USA

CUSTOMER PO # / REFERENCE #	REQUESTED DATE	KATO SALES ORDER #	DELIVERY TICKET #	DELIVERY TICKET DATE
81471	08/30/12	72433	68015	07/25/12

LINE	ITEM NO. DESCRIPTION	ITEM GROUP ITEM TYPE	SHIPPING METHOD	QTY SHIPPED	UoM
2	Chem & Phys Chemical & Physical Reports TLF-3C-0190	Accounting Items	UPS Ground Collect	1	Each

KATO Fastening Systems certifies that all CoilThread inserts supplied on the above purchase order have met all inspection requirements set forth by KATO Fastening Systems and comply to all chemical and physical specifications.

In addition, CoilThread inserts and tools are in conformance with the following Military and Aerospace Standards: NASM122076-122275 Rev 1 & NASM124651-124850 Rev 1 (formerly MS21208), NASM21209 Rev 2, NASMS33537, NASM8846 Rev 1, A-A-59158 Rev 98, MA3279 Rev B, MA3280 Rev B, MA3281 Rev B, MA3329 Rev C, MA3330 Rev C, MA3331 Rev C, MA1565 Rev A, MA1567 Rev B, and AS7245 Rev A.

Tangless CoilThread inserts are in conformance with NAS1130 Rev 4, NA0276 Rev 2, and NASM8846. KATO Tangless CoilThread tools conform to all KATO design specifications.

Dry Film Lubricated Inserts comply with Aerospace Standard AS5272C Type I (formerly MIL-L-46010). Cadmium Plated Inserts comply to AMS-QQ-P-416C (formerly QQ-P-416). Silver Plated Inserts comply to Aerospace Specification AMS2411.

RoHS Compliance: KATO Fastening Systems does not use lead, mercury, cadmium, hexavalent chromium, PBB or PBDE in the manufacturing of Tangless and Tanged CoilThread inserts and tools. Cadmium plating is offered by KATO Fastening Systems as an optional process in accordance to AMS-QQ-P-416B. Inserts with Cadmium plating are identified with a "Y" at the end of the Kato part number, a "P" at the end of the MS/NAS number, and the description will indicate Cadmium plating.

DFARS Compliance: KATO Tangless and Tanged CoilThread inserts are manufactured by KATO Precision Ltd. in the UK. The UK is listed in section 225.872-1 as a Qualified Country.

No Mercury is used in the manufacturing of KATO CoilThread Inserts and Tools.

Country of Origin: KATO CoilThread inserts are manufactured in the UK, with the exception of the new M2 Tangless Inserts which are manufactured in Japan. Inserts manufactured prior to 1995 were made in Japan or Singapore (tanged only). KATO-Kits are made in the USA. Hexatorq Hinges are made in Japan. All KATO tanged tools are manufactured in the USA. All KATO Tangless tools are manufactured in the USA with the exception of the CT16002-M series & 2CTSB-M series which are manufactured in Japan.

CoilThread Insert chemical and physical test reports, certifications, and other documents are on file and available for an additional charge.

CAGE CODE: 0YC40, ECCN: EAR99, Export License: NLR

Chem/Phys Included: ☒ Yes ☐ No

Quality Assurance Representative: 

Cindy Slominski



**REMARKS:**

81471 Based On Sales Orders 72433.

11836 FISHING POINT DRIVE, SUITE 400, NEWPORT NEWS, VA 23606  
PHONE: (757) 873-8980, FAX: (757) 873-4920, WEB: WWW.KATONET.COM

REV 080111

26119

Sales Order Number: 718553  
Finished Lot Number: 81471-07-004

### KATO LOT NUMBER DELIVERY REPORT

Date 07/25/12

Batch Report for Delivery

Delivery 68015


Customer PO No. 81471

Bill To Aircraft Fasteners International, LLC  
PO Box 66249

Los Angeles CA 90066-0249  
USA

Ship To Aircraft Fasteners International, LLC  
13402 Beach Ave.

Marina Del Rey CA 92092  
USA

Line #	Item No.	Description	Qty Shipped	UoM
1	TLF-3C-0190	MS21209F1-10, INSERT, TANGED, 10-32 X 1 D, BULK	100,000	Each
Lot Number(s)		Lot Qty		
C18331		9,000		
C18515		47,000		
C18516		44,000		

11836 FISHING POINT DRIVE, SUITE 400, NEWPORT NEWS, VA 23606  
PHONE: (757) 873-8980, FAX: (757) 873-4920, WEB: WWW.KATONET.COM

401197

Sales Order Number: 718553  
Finished Lot Number: 81471-07-004



## COILTHREAD™ CHEM/PHYS REPORT

Advanex Europe Ltd

Mill Park Way, Off Station Road, Southwell, Nottinghamshire, NG25 0ET



RECEIVED

Works Order.	C18515	Sample Size.	56	Inspection Date.	09-May-2012
Part No.	TLF-3C-0190	Qty Passed.	56	Procurement Spec.	NASM8846
Thread Size.	10-32 X 1D	Qty Rejected.	0	Mil Part No.	MS21209-F1-10
Lot Size.	48,000.00				

AFI  
8  
No 1197

Heat No.	Inspection - Coil No.	Certificate No.	Wire	Batch No.
E37020	1018-59221-3	X1978	DW-0590-001	54592

Characteristic	Specified Range		Actual Range		Insp. Acc.
	Lower	Upper	Min	Max	
A. OUTSIDE DIAMETER	5.9940	6.5020	6.140	6.150	OK
B. NO. OF COILS 1D	3.8750	4.1250	4.125	4.125	OK
C. FIRST COIL C	5.9940	6.5020	6.080	6.100	OK
D. NOTCH ANGLE	15.0000	90.0000	45.000	45.000	OK
E. TANG LENGTH	3.3280	4.6200	3.440	3.730	OK
L. NO. OF LOCK FLATS		5.0000	5.000	5.000	OK
M. NO. OF LOCK COILS		1.0000	1.000	1.000	OK
N. LOCK COILS POS. 1D	1.0625	3.6250	2.625	2.625	OK

ALL DIMS IN mm

ALL ANGLES IN DEGREES

END ONE /	Sample Size	Insp. Acc.	SAMPLE SIZE	MIN TORQUE	MAX TORQUE	ACC /REJ
INSERT ONTO TOOL	8	OK	8	2.000	13.000	
INSERT INTO HOLE	8	OK	1. 1st INSERTION	3.400	4.900	OK
			2. 1st WITHDRAWAL	3.300	5.400	OK
			3. 7th INSERTION	2.900	3.900	OK
			4. 7th WITHDRAWAL	2.800	4.500	OK
			5. 15th INSERTION	2.400	3.200	OK
			6. 15th WITHDRAWAL	2.300	3.800	OK
COLOUR RED		OK				
COLD BEND TEST		OK				
SURFACE ROUGHNESS		OK				
SPACING TEST		OK				
TANG CENTRAL TO H		OK				

Name: DAN GOLDSBROUGH  
QUALITY & SYSTEMS TECHNICIAN

Signature:



No 1197

0000254 ISS:3 14/06/2011

Advanex Europe Ltd are BSI Registered  
BS/EN/ISO 9001:2008 Certificate Number FM 20982  
BS/EN/ISO 14001:2004 Certificate Number EMS 523167



RECEIVED NOV 2 2012



# INSPECTION CERTIFICATE

## 検査報告書

Date Of Issue

発行日

2011.11.10

1176

No. X1978

Contractor 契約先 株式会社ベアー技研		Customer 顧客 貴社	
Description 品名 ステンレス鋼線		御中	
Type Of Steel 鋼種名 AS7245 (SUS304)		Size 寸法 0.705	
Net Mass 質量 754.2 kg	Number 数量 6	Condition 仕上 3/4H UB	Order No. 受注番号 AA44321

Elements 成分 Specification 規格 Heat No. 炉番番号	Chemical Composition 化学組成 (%)									
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	
	0.08 MAX	1.00 MAX	2.00 MAX	0.045 MAX	0.030 MAX	8.00 10.50	18.00 20.00	0.75 MAX	0.75 MAX	
E37020	0.07	0.45	1.25	0.030	0.004	8.43	18.04	0.23	0.33	

Inspection Items 検査項目 Specification 規格 Inspection No. 検査番号	Mass 質量		Size 寸法		Tensile Strength 引張強さ		Elongation 伸び		Reduction of Area 断面収縮	
	kg	mm	mm	mm	N/mm <sup>2</sup>	mm	%	%	%	%
1018-59221	116.6 123.8 124.4 124.2 98.3 187.0	0.700 0.710 0.704 0.704	1635 1620 1610	1635 1630						
		以上								

外觀 : 良

It is hereby certified  
that the above results  
are true and correct  
in every detail.  
上記の成績は真実無誤を  
証していることと断言します。

NIPPON SKISEN CO., LTD.

日本精練株式会社

4-17-1, Ohsanaka, Hirakata, Osaka, Japan  
大阪府八尾市大曾町1番1号 072-840-1204

製造工場 八尾  
(HIRAKATA PLANT) 072-840-1204



Sales Order Number: 718553  
Finished Lot Number: 81471-07-004

REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
 13402 BEACH AVE., MARINA DEL REY, CA. 90292  
 TEL (310) 821-5582 \* FAX (310) 821-0378 \* (310) 821-5616  
 D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 93007A  
 SOLD TO: EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030

SHIP TO:  
 EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030



SALES ORDER NO.		CUSTOMER P.O. NO.		BUYER	SALESPERSON	TERMS
718553		65392		MARY LYNN MARTIN	FRED	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / FOB / SPECIAL INSTRUCTIONS				
1-13		UPS Ground - Collect Acct #: 3165E0				
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO.	SHIPPED	NOTES		
1	1,000	TLC04C0224 KATO FASTENING SYSTEMS MADE IN U.K Cust Part #: MS21209C0420 ACCEPTED 1,000 PCS CTL# 82723-01-001 MFG LOT # C19224/ENGLAND Country of Origin: ENGLAND MFG: KATO FASTENING SYSTEMS NC	1,000 <i>sk</i>	IAW DFARS 252.225-7014 ALT 1.  • FTR		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
2	1,000	PLH358M ALCOA / SIMMONDS MADE IN FRANCE Cust Part #: NAS1291-8	0	Ship: 1,000 Date: 05-07-13 IAW DFARS 252.225-7014 ALT 1.		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
3	5,000	1OSD25A307B25 PAOLO ASTORI MADE IN ITALY Cust Part #: NAS1474A3 <i>REV:10</i> ACCEPTED 2,500 PCS CTL# 82013-05-001 MFG LOT # 46716/ITALY CD 4Q2012 Country of Origin: ITALY MFG: PAOLO ASTORI SPA	2,500 <i>sk</i>	Ship: 2,500 Date: 08-15-13 IAW DFARS 252.225-7014 ALT 1.  • FTR		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
4	2,000	1OSD25A087B22 PAOLO ASTORI MADE IN ITALY Cust Part #: NAS1474A08	0	Ship: 2,000 Date: 03-30-13 IAW DFARS 252.225-7014 ALT 1.		

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
 NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
 NO RETURNS ACCEPTED WITHOUT LOT TRACEABILITY.

MAINTAIN TRACEABILITY -  
 DO NOT MIX LOTS

PAGE: 1 of 5

Continued...



REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
 13402 BEACH AVE., MARINA DEL REY, CA. 90292  
 TEL (310) 821-5582 • FAX (310) 821-0378 • (310) 821-5618  
 D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 93007A  
 SOLD TO: EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030

SHIP TO:  
 EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030



SALES ORDER NO.		CUSTOMER P.O. NO.		BUYER	SALESPERSON	TERMS
718553		65392		MARY LYNN MARTIN	FRED	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / FOB / SPECIAL INSTRUCTIONS				
11-13		UPS Ground - Collect Acct #: 3165E0				
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO.	SHIPPED	NOTES		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
5	2,500	F1968-4 NUT, SELF-LOCKING, 1/4-28 Cust Part #: NAS1473A4. 264 PCS 710 PCS 1,170 PCS ACCEPTED CTL# 82608-001 MFG LOT # 5838233-000 CD4Q2012 Country of Origin: USA <i>Rev. 9</i> MFG: ALCOA FASTENERS SYSFULLERTON/ KAYNAR CTL# 82608-003 MFG LOT # 5838407-000 CD4Q2012 Country of Origin: USA <i>Rev. 9</i> MFG: ALCOA FASTENERS SYSFULLERTON/ KAYNAR CTL# 82608-004 MFG LOT # 5838408-000 CD4Q2012 Country of Origin: USA <i>Rev. 9</i> MFG: ALCOA FASTENERS SYSFULLERTON/ KAYNAR	2,144	Ship: 356 Date: 11-30-13 IAW DFARS 252.225-7014 ALT 1. - FTR		
		QM - P/C CERT W/MELT SOURCE NOTICE FROM QUALIFYING COUNTRY				
6	1,000	TLF06C0207 INSERT, HELICAL, 6-40 X 1.5D MADE IN U.K Cust Part #: MS21209F0615	0	Ship: 1,000 Date: 04-30-13 IAW DFARS 252.225-7014 ALT 1.		

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
 NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
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MAINTAIN TRACEABILITY -  
 DO NOT MIX LOTS

PAGE: 2 of 5

Continued...

REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
 13402 BEACH AVE., MARINA DEL REY, CA. 90292  
 TEL (310) 821-5582 \* FAX (310) 821-0378 \* (310) 821-5616  
 D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 93007A  
 SOLD TO: EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030

SHIP TO:  
 EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030



SALES ORDER NO.		CUSTOMER P.O. NO.		BUYER	SALESPERSON	TERMS
718553		65392		MARY LYNN MARTIN	FRED	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / FOB / SPECIAL INSTRUCTIONS				
1-13		UPS Ground - Collect Acct #: 3165E0				
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO.	SHIPPED	NOTES		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
7	500	TLF06C0276 INSERT, HELICAL, 6-40 X 2D MADE IN U.K Cust Part #: MS21209F0620	0	Ship: 500 Date: 04-30-13 IAW DFARS 252.225-7014 ALT 1.		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
8	10,000	TLF3C0190 KATO FASTENING SYSTEMS MADE IN U.K Cust Part #: MS21209F110 10,000 PCS CTL# 81471-07-004 MFG LOT # C18515/ENGLAND Country of Origin: ENGLAND MFG: KATO FASTENING SYSTEMS	10,000 <i>[Signature]</i>	IAW DFARS 252.225-7014 ALT 1.  <i>o FTR</i>		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				
9	10,000	TLF3C0190W INSERT, HELICAL, 10-32 X 1D MADE IN U.K Cust Part #: MS21209F110L 10,000 PCS CTL# 82458-05-003 MFG LOT # C18517W-01/ENGLAND Country of Origin: ENGLAND MFG: KATO FASTENING SYSTEMS	10,000 <i>[Signature]</i>	IAW DFARS 252.225-7014 ALT 1.  <i>. FTR</i>		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
 NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
 NO RETURNS ACCEPTED WITHOUT LOT TRACEABILITY.

MAINTAIN TRACEABILITY -  
 DO NOT MIX LOTS

PAGE: 3 of 5

Continued...

REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
 13402 BEACH AVE., MARINA DEL REY, CA. 90292  
 TEL (310) 821-5582 \* FAX (310) 821-0378 \* (310) 821-5616  
 D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 93007A  
 SOLD TO: EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030

SHIP TO:  
 EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE, FL 329041030



SALES ORDER NO.		CUSTOMER P.O. NO.		BUYER	SALESPERSON	TERMS
718553		65392		MARY LYNN MARTIN	FRED	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / FOB / SPECIAL INSTRUCTIONS				
.1-13		UPS Ground - Collect Acct #: 3165E0				
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO.	SHIPPED	NOTES		
10	1,000	TLF3C0380W INSERT, HELICAL, 10-32 X 2D MADE IN U.K Cust Part #: MS21209F120L 1,000 PCS CTL# 82744-03-004 MFG LOT # C18972W-01/ENGLAND Country of Origin: ENGLAND MFG: KATO FASTENING SYSTEMS	1,000 <i>el</i> ACCEPTED NC	IAW DFARS 252.225-7014 ALT 1. <i>FTR</i>		
		PC - PHYSICAL /CHEMICAL CERTIFICATION				

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
 NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
 NO RETURNS ACCEPTED WITHOUT LOT TRACEABILITY.

MAINTAIN TRACEABILITY -  
 DO NOT MIX LOTS

PAGE: 4 of 5

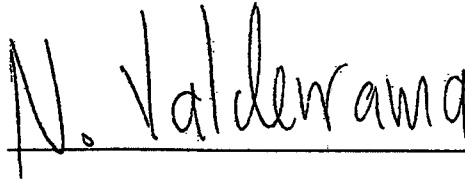
Continued...

REMIT TO: P.O. BOX 66249, LOS ANGELES, CA 90066-0249  
13402 BEACH AVE., MARINA DEL REY, CA. 90292  
TEL (310) 821-5582 \* FAX (310) 821-0378 \* (310) 821-5616  
D.U.N.S. 05-148-3659 FEDERAL I.D. 95-2312505

ACCOUNT NO. 93007A  
SOLD TO: EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE, FL 329041030

SHIP TO:  
EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE, FL 329041030

**AFI**  
**Aircraft Fasteners**  
**INTERNATIONAL, LLC**

SALES ORDER NO.		CUSTOMER P.O. NO.		BUYER	SALESPERSON	TERMS
718553		65392		MARY LYNN MARTIN	FRED	1%10 NET30
DATE ORDERED	DATE SHIPPED	SHIP VIA / FOB / SPECIAL INSTRUCTIONS				
1-13		UPS Ground - Collect Acct #: 3165E0				
LINE	ORDERED	PART NUMBER/DESCRIPTION/LOT NO.	SHIPPED	NOTES		
				<b>CERTIFICATE OF CONFORMANCE</b>  All inventory is purchased and maintained with manufacturer's lot number traceability, unless otherwise specified, with documentary evidence in the form of certification of conformance and/or physical and chemical test reports on file, available for inspection, attesting that items have been manufactured in accordance with all applicable standards and specifications. AIRCRAFT FASTENERS INTERNATIONAL, LLC. disclaims any responsibility for manufacturing or functional defects and hereby limits express or implied warranties to liability for replacement of this material, with responsibility not to exceed the invoice amount. When exporting this product you must comply with US Export Administration regulations. Any diversion to these regulations contrary to U.S law is prohibited.   QUALITY MANAGER		

SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.  
NO RETURNS ACCEPTED WITHOUT AUTHORIZATION.  
NO RETURNS ACCEPTED WITHOUT LOT TRACEABILITY.

MAINTAIN TRACEABILITY -  
DO NOT MIX LOTS

PAGE: 5 of 5

PACKING SLIP / CERTIFICATION



**2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199**

## CERTIFICATE OF CONFORMANCE

## EAST COAST AVIATION

I Hereby Certify that on 3/18/13 Airfasco Industries provided the supplies called for by Contract/ PO Number 65702 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7014 ALT 1 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

  
WM. DENT

**Quality Assurance Representative**

[illegible]



# AIRFASCO

## INDUSTRIES

MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

### PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 03/15/13

PART NO.: AN4-16A per NASM4-16A rev. 2

AFC LOT NO.: 23009

QTY MFG.: 74,800

PROCUREMENT SPECIFICATION: Produced per NASM 6812

### HEAT TREAT

VENDOR: Brite Metal

CERTIFICATION NO.: 163385

PROCUREMENT SPECIFICATION: Heat Treat per AMS-H-6875 B

### PLATING

VENDOR: Berlinger Plating

CERTIFICATION NO.: 73485

PROCUREMENT SPECIFICATION: Cadmium Plate per AMS-QQ-P-416C, Type II, Class 2

### MATERIAL

MILL: Solon Wire

COUNTRY OF MELT: USA

HEAT: 5170531

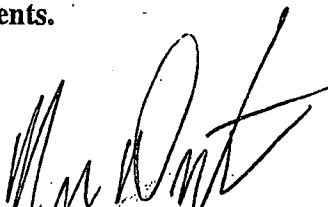
GRADE SPECIFICATION: Alloy Steel per AMS 6300 E, Type 4037, .275"

4037 MATERIAL CHEMISTRY											
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.370	.850	.007	.003	.200	.060	.070	.230	.070	.033	

PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	4,080 lbs.	3,130 lbs.	3,680 lbs.	HRC 26-32
ACTUAL	5,319 lbs.	4,780 lbs.	4,242 lbs.	HRC 29-30

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

Airfasco Industries  
Quality Assurance Representative:

  
Wm. Dent

[illegible]



# AIRFASCO

## INDUSTRIES

MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

### PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 1-2-13

PART NO.: AN4-17A per NASM4-17A rev. 2

AFC LOT NO.: 22221

QTY MFG.: 22,050

PROCUREMENT SPECIFICATION: Produced per NASM 6812

### HEAT TREAT

VENDOR: Brite Metal

CERTIFICATION NO.: 161288

PROCUREMENT SPECIFICATION: Heat Treat per AMS-H-6875 A

### PLATING

VENDOR: Beringer Plating

CERTIFICATION NO.: 69448

PROCUREMENT SPECIFICATION: Cadmium Plate per AMS-QQ-P-416C, Type II, Class 2

### MATERIAL

MILL: Charter

COUNTRY OF MELT: USA

HEAT: 568110

GRADE SPECIFICATION: Alloy Steel per AMS 6322 N, Type 8740, .288"

8740 MATERIAL CHEMISTRY											
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.410	.930	.008	.013	.240	.430	.520	.210	.170	.025	

PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	4,080 lbs.	3,130 lbs.	3,680 lbs.	HRC 26-32
ACTUAL	5,359 lbs.	4,812 lbs.	4,362 lbs.	HRC 31

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

Airfasco Industries  
Quality Assurance Representative:

T. West



# DE TRAY Plating Works

Specialized Electro-Plating and Polishing  
Nickel  
Copper  
Decorative Chrome  
Satin Chrome  
Zinc  
Cadmium  
Passivate  
Bright Dip  
Strip Copper  
Descale

10406 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052  
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@aol.com

July 10, 2008

Mac Fasteners  
1110 East Enterprise Street  
Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been cadmium plated per QQ-P-416/AMS-QQ-P-416/  
NAS4160, Type II Class 2 Please reference our Invoice # 128003 dated 7/10/2008 for:

Lot# 38330 P.N. - AN5-14A

James T. Pierson, Vice-President






DE TRAY PLATING WORKS

07200800070455  
AN5-14A



# HERNDON PRODUCTS

3801 Lloyd King Dr.  
O'Fallon, MO 63368  
Phone : (314) 739-7400  
Fax : (314) 739-5344

CUSTOMER	
ORDER NO	
CAGECODE	

B  
I  
L  
L  
T  
O

EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE, FL 32904

S  
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P  
T  
O

EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE, FL 32904

SALES ORDER 1147916-A		CUSTOMER PO 72459		HPI PO STOCK		PACKER KC		ORDER CONTACT GABRILLE	
SHIP DATE 09/04/14		WEIGHT 74		CARTONS 2		SHIP VIA UPS GROUND		FOB Origin	
						WAYBILL NUMBER 1299Y94E0391116052		BILLING ACCT 3165e0	
ITM	Quantities			PART NUMBER / DESC	MFG LOT	HPI LOT NO			
	BALDUE	ECKORD	SHIP						
001	1600	0 EA	1600 EA	AN5-14A BOLT, MACHINE CERT CODE : AE TERMS : Net 30 DEAR Compliant Per 252.225-7009 NOTES : export control ECCN EAR99	38330	07200800070455			

The above commodities are subject to the Export Administrations Regulations (EAR) and/or International Traffic in Arms Regulations (ITAR). It is your responsibility to obtain a validated export license for this material from the Department of Commerce or the Department of State if so required under the applicable U.S. Government Export Control Regulations. The above material shall not be shipped to any country that has an embargo placed on it by the U.S. Government or any entity on the US Debarred list. By accepting the items on this invoice you agree to our Terms and Conditions of Sales. These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. Law is prohibited.

**CERTIFICATION:** We hereby certify that the material contained in this shipment is new and the supplier has represented that the material was manufactured and inspected in accordance with all blueprint and procurement specification requirements and that the attached documents are certified as true copies of original documents and are on file for review. Evidence of compliance is on file with us and our supplier subject to examination.

**NOTWITHSTANDING THE FOREGOING, SELLER DISCLAIMS ANY WARRANTY OR RESPONSIBILITY FOR MANUFACTURING OR FUNCTIONAL DEFECT**  
\*Aerospace Fasteners Manufactured in the USA unless otherwise stated.\*

By Jeff Park Herndon Products, Inc. Authorized Quality Assurance Agent  
Jeff Park / Quality Manager

Nº 70449

# CERTIFICATE OF COMPLIANCE TEST REPORT

FORM REV A 11/09

MADE IN THE U.S.A.

CUSTOMER NAME EAST COAST AVIATION SUPPL

PART NO. AN526-1032R9 REV 6

PURCHASE ORDER NO. 58225

INTERNAL ROUTING NO. 23664

QUANTITY TWENTY SIX THOUSAND SIX HUNDRED

MATERIAL/SPECIFICATION .176 C1018 TRU SPEC D-C82982

DATE 9/28/2011

## PHYSICAL PROPERTIES

TENSILE STRENGTH	HARDNESS	SCALE
------------------	----------	-------

- |                |    |  |
|----------------|----|--|
| 1) 1464.0 LB T | 1) |  |
| 2) 1442.0 LB T | 2) |  |
| 3) 1459.0 LB T | 3) |  |
| 4) 1457.0 LB T | 4) |  |
| 5) 1403.0 LB T | 5) |  |
| 6)             | 6) |  |
| 7)             | 7) |  |
| 8)             | 8) |  |

OTHER TESTING:

ADDITIONALLY, AN ANSI/ASQC Z 1.4 SAMPLE OF THE FINISHED FASTENERS WERE TESTED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS. SAMPLE PARTS AND THE TEST DATA ARE IN OUR RECORDS RETENTION AREA AS OBJECTIVE EVIDENCE AND WILL BE HELD AS REQUIRED.

CONFORMS TO THE PROCUREMENT SPECIFICATIONS OF:

FF-S-92B

## OTHER MECHANICAL TEST DATA

☐ MEET MAGNETIC PERMEABILITY  
REQUIREMENTS OF ASTM A342

PARTS ARE FREE FROM MERCURY CONTAMINATION.  
VISUAL AND DIMENSIONAL INSPECTION SATISFACTORY

FINISH

CAD TYPE I CLASS 3 PER AMS QQ-P-416 REV C

INSPECTED TO: ANSI/ASQ Z1.4 LEVEL 2

Signature

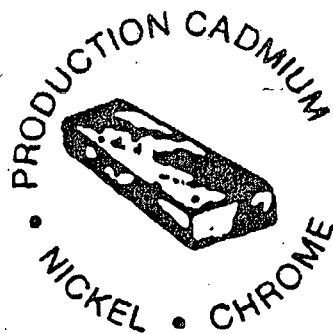
TRACEY NIKSA, QC TECH

CRESCENT MANUFACTURING OPERATING, CO.



Cage Code #63020

700 George Washington Turnpike, Burlington, CT 06013, U.S.A.  
Telephone: (860) 673-2591 Fax: (860) 673-5973



New Method Plating Co., Inc.

QUALITY  
MANAGEMENT  
SYSTEM  
ISO 9001:2000  
AS9100 REV. B  
CERTIFIED

Established 1931



43 Hammond St.  
Worcester, MA 01610  
Phone 508.754.2671  
Fax 508.754.1981  
www.newmethodplating.com

**CERTIFICATE OF COMPLIANCE**

COMPANY CRESCENT MFG. CO.

DATE 9/21/11

PO#

23664

QUANTITY

30,000

JOB # 10-32 x 9/16 Ph Truss AN526-1032r9

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C

Class III Type I (Clear X Yellow      Black     )

Hardness: na HRC

☒ NO BAKE

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 8 hours.

☐ Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

**Thickness Test Results**

Accept ☒ Reject ☐ Min.: Spec. .0002 Read .00039 Avg. .00041

**Adhesion Test Results**

Accept ☒ Reject ☐

Inspected by: [Signature]

**Certification**

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

Signed: [Signature]

Title: Q.A. Manager

Date: SEP 21 2011

CRESCENT MFG  
T.R. NO. 70449



**Johnstown  
Wire  
Technologies**

124 Laurel Ave,  
Johnstown, PA 15906

Phone: 814-532-5680  
Fax: 814-532-5684

**TEST REPORT**

WORK ORDER  
**652273**

LOT NUMBER  
**D-C82982**

SALES ORDER / RLS  
**119926 / 4**

SOLD TO

Tru-Spec Metals, Inc.  
21 Commerce Drive  
North Branford, CT 06471  
USA  
Attn: QA Dept



CUSTOMER P.O. <b>P11182</b>	CUSTOMER PART <b>C1018176FSPL</b>	QUANTITY <b>5,918 LBS</b>	COILS <b>4</b>	LADING NO <b>00101605</b>	SHIPMENT DATE <b>01/04/2011</b>
<b>SPECIFICATION Truspec-5703</b> <b>1018 Aluminum Killed Fine Grain Cold Heading Quality Spherodize Annealed At Finish Size PHOS &amp; Lube Coated</b> <b>Size: .176 +.0015 -.0015</b>					
<b>CERTIFICATION REQUIREMENTS</b>					
<b>Chemical</b>					
<b>C</b> .18	<b>Mn</b> .75	<b>P</b> .006	<b>S</b> .004	<b>SI</b> .06	<b>Al</b> .042
<b>Mechanical</b>					
<b>TEST</b> Tensile Str	<b>UNITS</b> Lbs/SqIn	<b>HIGH</b> 57000	<b>LOW</b> 56000	<b>AVERAGE</b> 57000	
<b>Rod / Melt Source</b>					
<b>Country of Origin</b> <b>Canada</b>					
<b>End of Certification</b>					
<b>CRESCENT MFG</b> <b>T.R. NO. 70449</b>					

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

*D. L. Deetscreek*  
**D. L. Deetscreek**  
**Director of Quality Assurance**

JAN. 4. 2011 1:54PM

JWT

NO. 907 P. 2

## Certificat d'essai/Test Certificate

ArcelorMittal

Usine de Contrecoeur Est / Contrecoeur East works

Vendu à - Sold to  
JOHNSTOWN WIRE TECHNOLOGIES INC.  
124 Laurel Avenue  
JOHNSTOWN PA 15908  
ETATS-UNIS

Expédié à - Shipped to  
JOHNSTOWN WIRE TECHNOLOGIES INC.  
124 Laurel Avenue  
JOHNSTOWN PA 15908  
ETATS-UNIS

No. de com. / No. de bon de comm. / Collocalement / Date exp. / Date du cert. / No. de Certificat  
Safe order / Customer Order / Bill of lading / Date shipped / Certificate Date / Certificate no.  
65787 / 32437 / 60247923 / 2010/11/08 / 2010/11/08 / 0000094338

Article / Description / No. Matériel / No. pièce / Poids expédié / Coulee  
Rem. / Material No. / Part No. / Weight / Heat  
000001 Cold Heading Qual WR, Green Rod / 20024360 / 0000000000 / 42,16673 / C82982\_01  
AXAL8CF, 0.315" - 0.00mm  
RW007 AXAL8CF

## ANALYSE CHIMIQUE-CHEMICAL ANALYSIS (%)

Coulee/Heat:	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	Alu	Alu
C82982_01	0.180	0.75	0.006	0.004	0.06	0.04	0.02	0.02	0.004	0.002	0.000	0.042	0.042
Coulee/Heat:	N	Sn	Ti	Bt	Ca	Pb	As	Se	Sb	Bi	Te		
C82982_01	0.0039	0.003	0.000	0.0001	0.0027	0.000	0.003	0.004	0.000				

## ESSAI JOMINY - JOMINY TEST (HRC)

Coulee/Heat:	JH	J1	J2	J3	J4	J5	J6	J8	J10	J12	J14	J16	J20	J24	J28	J32
C82982_01																

## PROPRIÉTÉS MÉCANIQUES - MECHANICAL PROPERTIES

Coulee/Heat:	Tensile L. Ultimate (KSI)	Rel Elongation (%)
C82982_01	70.5	70.5

## Remarques/Remarks:

The chemical analysis was performed at ArcelorMittal Montreal Inc. laboratory, 3900 Route des Aciéries, Contrecoeur (Québec) J0L 1C0 Canada. The laboratory is accredited by BNQ according to ISO-17025 (certificate no 270). The testing methods used by the laboratory are ASTM E215 and ASTM E1019.

CRESCENT MFG  
T.R. NO. 70449

Signature

Date

Mettre à jour

Mettre à jour

## Tru-Spec Metals, Inc.

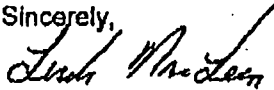
21 Commerce Drive ~ North Branford, CT 06471 ~ 888-484-5151 ~ Fax 888-484-5154

2/21/2011

We certify that the following material was supplied by Tru-Spec Metals, Inc. and shipped to  
Crescent Manufacturing Company:

<u>Dia.</u>	<u>Grade</u>	<u>Temper</u>	<u>Quantity</u>	<u>Heat #</u>	<u>PO#</u>	<u>Producer</u>
.176"	C1018	SAFS	1,447#	DC82982	K10-365	Johnstown
.176"	C1018	SAFS	3,484#	DC82982	K11-49	Johnstown

Sincerely,



Linda MacLean  
Tru-Spec Metals, Inc.

CRESCENT MFG  
T.R. NO. 70449



Sivaco Québec  
A DIVISION OF SIVACO WIRE GROUP 2004 L.P.  
800, rue Ouelletta, Mariville (Québec)  
Canada, J3M 1P6  
Tel.: (450) 858-8741  
Fax: (450) 460-3828

## PHYSICAL TEST REPORT

DATE	SIVACO ORDER NO.
2011-09-07	M431556-1

### CUSTOMER

TRU-SPEC METALS, INC  
NORTH BRANFORD, CT

LOADING TALLY NO.		SHIPPING MEMO NO.		MILL TESTS NO.			
511881-00		488457		214701			
PURCHASE ORDER NO.		QUANTITY ORDERED		PRODUCT		SPEC.	
P12221		12,000 LBS		.178 1018 CHQ AKFG SAFS PHOS LUBE 1018176F8P		ASTM F2282, SAE AIR 4127	

### HEAT CHEMICAL ANALYSIS

HEAT NO.	%C	%Mn	%P	%S	%Si	%Al	%Cu	%Ni	%Cr	%Mo	%Sn	%Fe	%V	%Nb	%Ti	%Zn	%B	%As	%Co	%N2	%O2	%Ca	%Zr
C88032	.16	.70	.008	.006	.05	.058	.04	.02	.02	.004	.006		.0020				.0001			.0026			

### RESULTS

SAMPLE	DIAMETER	BREAKING LOAD (LBS)	U.T.S. K.S.J.	R.O.A. (%)	SQUASH	HEAT NO	COIL WEIGHT																
SPEC.	.1745 .1775		67.0 MAX.	66.00 80.00																			
SHP M431556-1	.1758	1418	58.8	83.4	OK	C88032	1871																
SHP M431556-2	.1758	1388	58.8	83.4	OK	C88032	1872																
SHP M431556-3	.1780	1358	55.8	85.2	OK	C88032	1883																
SHP M431556-4	.1780	1358	58.8	85.2	OK	C88032	1882																
SHP M431556-5	.1780	1378	58.8	85.2	OK	C88032	1883																
SHP M431556-6	.1780	1358	58.8	85.2	OK	C88032	1880																
SHP M431556-7	.1785	1388	58.8	85.2	OK	C88032	1887																
SHP M431556-8	.1785	1388	58.8	85.2	OK	C88032	1870																
SHIPPED: 8																							

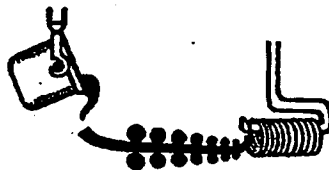
### NOTES:

APPROVED BY: 3205

Michel Crytes

CRESCENT MFG  
T.R. NO. 70598





# MILL TEST CERTIFICATE

**IVACO ROLLING MILLS LP**

A HELCO COMPANY

P.O. BOX 322, L'ORIGINAL, ONTARIO, CANADA K0B 1K0

TEL: (613) 675-4671 FAX: (613) 675-6868

90001 0442 **SIVACO QUEBEC**  
800 QUELLETTE STREET

MARIEVILLE (QC) J3M 1P5

This report contains analysis data that were produced under subcontract by laboratory Arcelor/Mittal Canada, Standards Council of Canada certificate number 270.

NVLAP only covers the chemistry presented within this certificate. All other data is not covered by the NVLAP accreditation.



Lab Code 200143-0

ATTENTION : Chris Bonilla

VIA : EMAIL

Date Rolled 02-Jul-2011

Date Chemical Analysis Performed

08-Jun-2011

Date Rolled 02-Jul-2011															Date Chemical Analysis Performed					08-Jun-2011	
P.O. Number	Order Number	Heat Number	Customer Spec.	Spec Rev. No.	Customer Part No.	Billet Order	Grade	Diameter													
110093	40097044	C86032	AD418		41XX	315929	1018AK CHQ	6.50 mm													
Heat Analysis																					
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	B	V							
Spec. Min *	.15	.65									.020										
Actual	.16	.70	.008	.006	.05	.04	.02	.02	.004	.006	.058	.0025	.0001	.002							
Spec. Max*	.18	.90	.020	.015	.10	.10	.10	.10	.015	.015	.060	.0080	.0010	.015							
This is to certify that heat number C86032 is in conformance with the specified specification.																					

This is to certify that heat number C86032 is in conformance with the required specifications.

Heat analysis obtained by test methods ASTM E415 and ASTM E1018.

\*Minimum and maximum refer to the required customer specification.

This is to certify that the material is in conformance with the required specifications.

Radioactive emissions are at background levels.

The wire rod was produced from Continuous Cast billets.

The product has not come in contact with mercury or any of its compounds during processing at I.R.M.

The rod meets SAE AIR 4127

CRESCENT MFG  
T.R. NO. 70598

APPROVED BY :

Supervisor, Chemistry Laboratory and Billet Inspection

This Certificate shall not be reproduced except in full, without the written approval of Ivaco Rolling Mills LP, a Helco Company. This certificate is not to be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

ISSUED BY QUALITY ASSURANCE :

Date: 9 Sep 2011

Specification Clerk

# TRU-SPEC METALS, INC.

## Packing List

21 Commerce Drive  
North Banford, CT 06471  
PH: 800-345-9473  
FAX: 888-380-8404

Order #: S33739  
Ship Date: 09/14/11  
Page: 1

Bill to: CRESCENT MANUFACTURING  
P O BOX 1350  
BURLINGTON, CT 06013  
USA

Ship to: CRESCENT MANUFACTURING  
700 GEORGE WASHINGTON TPK  
BURLINGTON, CT 06013  
USA

Customer #	Customer Purchase Order #	Ship Terms	Branch	Salesperson
381	K11-236	MID-CITIES	2	
Item Number / Description			Heat/Lot	Net Wt
TOTAL LB OF THIS PART				3131
1018	.176 SAFS AKFG PHLU CHQ		C86032	1599
1018	.176 SAFS AKFG PHLU CHQ		C86032	1532

Special Instructions:

Total LBS: 3131

ISO 9001:2000 CERTIFIED  
ED TAX I.D. #36-3307958

Office Copy

CRESCENT MFG  
T.R. NO. 70598

## Tru-Spec Metals, Inc.

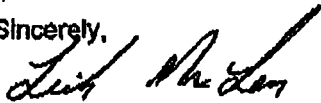
21 Commerce Drive ~ North Branford, CT 06471 ~ 888-484-5151 ~ Fax 888-484-5154

9/14/2011

We certify that the following material was supplied by Tru-Spec Metals, Inc. and shipped to  
Crescent Manufacturing Company:

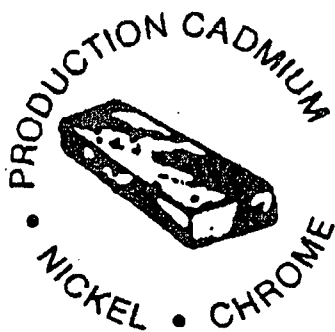
<u>Dia.</u>	<u>Grade</u>	<u>Temper</u>	<u>Quantity</u>	<u>Heat #</u>	<u>PO#</u>	<u>Producer</u>
.176"	C1018	SAFS	3,131#	C86032	k11-236	Sivaco

Sincerely,



Linda MacLean  
Tru-Spec Metals, Inc.

CRESCENT MFG  
T.R. NO. 70590



*New Method Plating Co., Inc.*

QUALITY  
MANAGEMENT  
SYSTEM  
ISO 9001:2000  
AS9100 REV. B  
CERTIFIED

Established 1931



43 Hammond St.  
Worcester, MA 01610  
Phone 508.754.2671  
Fax 508.754.1981  
www.newmethodplating.com

**CERTIFICATE OF COMPLIANCE**

COMPANY CRESCENT MFG. CO.

DATE 10/4/11

PO#

23663

QUANTITY

30,000

JOB # 10-32 x 7/16 Ph Truss AN526-1032r7

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C

Class III Type I (Clear X Yellow      Black     )

Hardness: NA HRC

☒ NO BAKE

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 8 hours.

☐ Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

**Thickness Test Results**

Accept ☒ Reject ☐ Min.: Spec. .0002 Read .00033 Avg. .00038

**Adhesion Test Results**

Accept ☒ Reject ☐

Inspected by: 

**Certification**

CRESCENT MFG  
T.R. NO. 70599

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

Signed: 

Title: Q.A. Manager

Date: OCT 4 2011



**AIRFASCO**  
**INDUSTRIES**  
MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

**CERTIFICATE OF CONFORMANCE**

**EAST COAST AVIATION**

I Hereby Certify that on 04/11/14 Airfasco Industries provided the supplies called for by Contract/ PO Number 70679 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7014 ALT 1 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

  
WM. DENT

Quality Assurance Representative

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN5-32A	15137	5000			



# AIRFASCO

## INDUSTRIES

MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

### PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 1-2-13 PART NO.: AN4-17A per NASM4-17A rev. 2  
AFC LOT NO.: 22221 QTY MFG.: 22,050  
PROCUREMENT SPECIFICATION: Produced per NASM 6812

### HEAT TREAT

VENDOR: Brile Metal CERTIFICATION NO.: 161288  
PROCUREMENT SPECIFICATION: Heat Treat per AMS-H-6875 A

### PLATING

VENDOR: Beringer Plating CERTIFICATION NO.: 69448  
PROCUREMENT SPECIFICATION: Cadmium Plate per AMS-QQ-P-416C, Type II, Class 2

### MATERIAL

MILL: Charter COUNTRY OF MELT: USA HEAT: 568110  
GRADE SPECIFICATION: Alloy Steel per AMS 6322 N, Type 8740, .288"

8740 MATERIAL CHEMISTRY											
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.410	.930	.008	.013	.240	.430	.520	.210	.170	.025	

PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	4,080 lbs.	3,130 lbs.	3,680 lbs.	HRC 26-32
ACTUAL	5,359 lbs.	4,812 lbs.	4,362 lbs.	HRC 31

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

Airfasco Industries  
Quality Assurance Representative: \_\_\_\_\_

T. West



**2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199**

## **CERTIFICATE OF CONFORMANCE**

## EAST COAST AVIATION

I Hereby Certify that on 2/25/13 Airfasco Industries provided the supplies called for by Contract/ PO Number 65703 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7014 ALT 1 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

  
WM. DENT

**Quality Assurance Representative**

[illegible]



# AIRFASCO

## INDUSTRIES

MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

### PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 03/14/08

PART NO.: AN5-32A per NASM5-32A rev. 1

AFC LOT NO.: 15137

QTY MFG.: 22,696

PROCUREMENT SPECIFICATION: Produced per NASM 6812 rev. 2

### HEAT TREAT

VENDOR: Brite Metal

CERTIFICATION NO.: B-138764

PROCUREMENT SPECIFICATION: Heat Treat per AMS-H-6875 A

### PLATING

VENDOR: Beringer Plating

CERTIFICATION NO.: 48358

PROCUREMENT SPECIFICATION: Cadmium Plate per AMS-QQ-P-416B, Type II, Class 2

### MATERIAL

MILL: Republic

COUNTRY OF MELT: USA

HEAT: 7243491

GRADE SPECIFICATION: Alloy Steel per AMS 6300 C, Type 4037, .328"

4037 MATERIAL CHEMISTRY											
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	Other	Other
LADLE	.380	.800	.009	.003	.210	.030	.080	.260	.020		

PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	6,500 lbs.	4,980 lbs.	5,750 lbs.	HRC 26-32
ACTUAL	8,321 lbs.	7,913 lbs.	6,847 lbs.	HRC 29-30

Non-Destructive Magnetic Particle per ASTM-E-1444-01

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

Airfasco Industries

Quality Assurance Representative:

  
Wm. Dent



**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: BILD INDUSTRIES

PO: 78873

PART NUMBER: AN5C11A

REV: 2

LOT NUMBER: 62261

MANUFACTURED QUANTITY: 3,000

MILL HEAT NUMBER: 567315

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 05/31/13

  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC.  
1110 EAST ENTERPRISE  
OTTAWA, KS 66067

## CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER BILD INDUSTRIES	PO NUMBER 78873	MFG QUANTITY 3,000	DATE 05/31/13
PART NUMBER AN5C11A	REV 2	LOT NO 62261	PROCUREMENT SPEC NASM6812

MATERIAL TYPE 431				MATERIAL SPECIFICATION ASTM A493				MILL HEAT NUMBER 567315			SUPPLIER CARPENTER		
C .15	Si .54	Mn .65	P .019	S .002	Cu	Ni 1056	Cr 16.2	Mo	V	B	Fe	Al	Ti
	Co	N	BI	Pb	Mg	Zn		Nb	Sn			Other	

### MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
10,180	
10,200	
10,180	
10,220	
10,200	
MIN. REQ.	6500

DOUBLE SHEAR STRENGTH POUNDS / PSI	
13,760	
13,780	
13,760	
13,740	
13,740	
MIN. REQ.	11500

HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	5
ACTUAL RESULTS	
29-31 HRC	

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection System <input type="checkbox"/> 21 System <input checked="" type="checkbox"/> 22 System <input type="checkbox"/> 23 FED-STD-H28/20 - ASME B1.3			

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input checked="" type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Recess Torque Test	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>

### TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

  
Quality Assurance Representative

AS9100C REGISTERED  
SAI GLOBAL - 0058029

MAC FASTENERS, INC.  
1110 ENTERPRISE  
OTTAWA, KANSAS 66067

## HEAT TREAT CERTIFICATION

CUSTOMER: BILD INDUSTRIES

DATE: 05/31/13

PO NUMBER: 78873

MANUFACTURED QUANTITY: 3,000

LOT NUMBER: 62261

MATERIAL: TYPE 431

PART NUMBER: AN5C11A

REVISION: 2

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 5

HARDNESS: 29-31 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

  
QUALITY ASSURANCE REPRESENTATIVE

CERTIFICATE OF TESTS  
CERT SERIAL# 000857805

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



**CARPENTER**

Carpenter Technology Corporation  
101 West Bern Street, Reading, Pa. 19601  
Tel: (610) 204-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

01/14/13

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 1

MAC FASTENERS INC

1110 E. ENTERPRISE  
OTTAWA KS 66067

BOL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
77997	W68043	01/14/13	3546.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 567315

PRODUCT DESCRIPTION: TYPE 431 COLD FINISH SEAM FREE ANNEALED C HDG CL K1 HVY  
----- CU TENSILE MAX 100.0 KSI

SPECIFICATION: ASTM-A493-09  
-----

SIZE 0.309500 IN. ( 7.86 MM) RD WIRE

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.15	0.65	0.54	0.019	0.002	16.2
NI(XRF)					
1.56					

TENSILE AS SHIPPED, KSI(MPA) 92.0( 634)

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

GARY BROWN  
MANAGER - SPECIFICATIONS/CERTIFICATIONS  
CARPENTER TECHNOLOGY CORPORATION

*Gary Brown*

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.  
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.  
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

# DE TRAY Plating Works

Specialized Electro-Plating and Polishing  
Nickel  
Copper  
Decorative Chrome  
Satin Chrome  
Zinc  
Cadmium  
Passivate  
Bright Dip  
Strip Copper  
Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052  
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@aol.com

Passivate Treatment per QQ-P-35C/SAE AMS QQ-P-35/AMS 2700

CUSTOMER: Mac Fasteners Lot#: 62261  
PART NUMBER: AN5C11A  
PROCUREMENT SPECIFICATION: n/a  
OTHER CONTRACTURAL REQUIREMENTS:  
MATERIAL: 431  
QUANTITY: 115 lbs  
INVOICE NUMBER: 170184

#### Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with QQ-P-35C/SAE AMS-QQ-P-35, AMS2700 and part standard.

DE TRAY PLATING WORKS

NAME: James T. Russo

JOB TITLE: VICE-PRESIDENT

DATE: 05/28/2013

Please Visit our Web Site : [DeTrayPlating.com](http://DeTrayPlating.com)

CUST PO NO 70407 SO NO 484938  
 FROM: BILD INDUSTRIES, INC.  
 800 CLEARWATER LOOP  
 POST FALLS, ID 83854

CUST PO NO 70407 SO NO 484938  
 FROM: BILD INDUSTRIES, INC.  
 800 CLEARWATER LOOP  
 POST FALLS, ID 83854

CUST PO NO 70407 SO NO 484938  
 FROM: BILD INDUSTRIES, INC.  
 800 CLEARWATER LOOP  
 POST FALLS, ID 83854

SHIP TO

EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE FL 32904

SHIP TO

EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE FL 32904

SHIP TO

EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE FL 32904

CUSTOMER BILL TO ADDRESS

COMPLETE CUSTOMER PO NO.

BILL TO NO.

SHIP TO NO.

PAGE

EAST COAST AVIATION SUPPLIES  
 399 EAST DRIVE  
 MELBOURNE FL 32904

BUYER NAME & PHONE NO.

MARYLYNN/F  
 AX

PACKING SLIP  
 INSPECT IMMEDIATELY

LINE	LOC	QTY ORDERED	TOTAL QTY SHIPPED THIS ORDER	LOT	CUST. PO NO.	CUST. NO.	DESCRIPTION
17		1	1	C FULL CERTS	70407	ECA001	CERTIFICATION
18		50	50	C AN5-47A Rev: 2	70407	ECA001	BOLT Bx2=44
19		1	1	C FULL CERTS	70407	ECA001	CERTIFICATION
20		5000	5000	C AN5-4A	70407	ECA001	BOLT
21		1	1	C FULL CERTS	70407	ECA001	CERTIFICATION
22		1000	500	P AN5C11A Rev: 2	70407	ECA001	BOLT Bx3=41
23		1	1	C FULL CERTS	70407	ECA001	CERTIFICATION
24		1	1	C FULL CERTS	70407	ECA001	CERTIFICATION

CERTIFICATION OF CONFORMANCE

WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE WITH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.

CAGE CODE 31222

DATE

MAR 24 2014

QUALITY CONTROL MANAGER

DATE SHIPPED

SHIPPED VIA

SIGNATURE - MERCHANDISE RECEIVED

TOTAL WT 252 NO CTNS 6

P = PARTIAL  
 C = COMPLETE  
 CC = CONSIDER COMPLETE  
 CX = CANCEL

Thank you for your order

MAC FASTENERS, INC.  
1110 ENTERPRISE  
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: BILD INDUSTRIES

PO: 76756

PART NUMBER: AN5C7A

REV: 2

LOT NUMBER: 55814

MANUFACTURED QUANTITY: 4,200

MILL HEAT NUMBER: 562237

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225-7014, ALTERNATE 1 COMPLIANT

**MERCURY FREE CERTIFICATION**

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 10/31/11

  
\_\_\_\_\_  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100/ISO9001 Registered Company - PJR# C2009-00297

MAC FASTENERS, INC.  
1110 EAST ENTERPRISE  
OTTAWA, KS 66067

## CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER BILD INDUSTRIES	PO NUMBER 76756	MFG QUANTITY 4,200	DATE 10/31/11
PART NUMBER AN5C7A	REV 2	LOT NO 55814	PROCUREMENT SPEC NASM6812

MATERIAL				MATERIAL SPECIFICATION				MILL HEAT NUMBER			SUPPLIER		
TYPE 431				ASTM A493				562237			CARPENTER		
C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	B	Fe	Al	Ti
.16	.55	.65	.016	.001		1.57	15.8						
	Co	N	Bi	Pb	Mg	Zn		Nb	Sn			Other	

### MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
9,900	
9,920	
9,880	
9,940	
9,900	
MIN. REQ.	6500

DOUBLE SHEAR STRENGTH POUNDS / PSI	
TOO SHORT TO TEST PER NASM1312-13	
MIN. REQ.	

HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	5
ACTUAL RESULTS	
30-32 HRC	

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3	System <input type="checkbox"/> 21	System <input checked="" type="checkbox"/> 22	System <input type="checkbox"/> 23

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input checked="" type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Recess Torque Test	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>

### TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

Quality Assurance Representative

AS9100, ISO9001 REGISTERED  
PJR #C2009-00297



MAC FASTENERS, INC.  
1110 ENTERPRISE  
OTTAWA, KANSAS 66067

## HEAT TREAT CERTIFICATION

CUSTOMER: BILD INDUSTRIES

DATE: 10/31/11

PO NUMBER: 76756

MANUFACTURED QUANTITY: 4,200

LOT NUMBER: 55814

MATERIAL: TYPE 431

PART NUMBER: AN5C7A

REVISION: 2

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 5

HARDNESS: 30-32 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

  
\_\_\_\_\_  
QUALITY ASSURANCE REPRESENTATIVE

CERTIFICATE OF TESTS  
CERT SERIAL# 000766885

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



**CARPENTER**

Carpenter Technology Corporation  
101 West Barn Street, Reading, Pa. 19601  
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND BETA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

03/16/11

CUSTOMER/BESTELLER/CLIENT

MAC FASTENERS INC

SELLER/VERKÄUFER/VENDEURPAGE 1 OF 1

1110 E. ENTERPRISE  
OTTAWA KS 66067

BOL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERK-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
54130	W80400 - 1	03/16/11	1904.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 562237

PRODUCT DESCRIPTION: TYPE 431 ANNEALED COLD FINISH SEAM FREE C HDG CL K2 HVY  
-----  
CU/SOAP TENSILE MAX 115.0 KSI  
PART NUMBER: 431-.310

SPECIFICATION: ASTM-A493-09  
-----

SIZE 0.310500 IN. ( 7.89 MM) RD WIRE

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.16	0.65	0.55	0.016	0.001	15.8
NI(XRF)					
1.57					

TENSILE AS SHIPPED, KSI(MPA) 110.0( 758)  
--

MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.  
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-  
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1,  
SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.  
CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO  
THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE  
REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH  
3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE  
IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS.

HEIDI L. SUNDAY  
GROUPLDR - SPECIFICATIONS/CERTIFICATION  
CARPENTER TECHNOLOGY CORPORATION



*Heidi L. Sunday*

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.  
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.  
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# DE TRAY Plating Works

Specialized Electro-Plating and Polishing  
Nickel  
Copper  
Decorative Chrome  
Satin Chrome  
Zinc  
Cadmium  
Passivate  
Bright Dip  
Strip Copper  
Descale

10408 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052  
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@aol.com

Passivate Treatment per QQ-P-35C/SAE AMS QQ-P-35/AMS 2700

CUSTOMER: Mac Fasteners, Inc. Lot#- 55814  
PART NUMBER: AN5C7A  
PROCUREMENT SPECIFICATION: n/a  
OTHER CONTRACTURAL REQUIREMENTS:  
MATERIAL: 431  
QUANTITY: 115 lbs  
INVOICE NUMBER: 156476

#### Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with QQ-P-35C/SAE AMS-QQ-P-35, Type II, AMS2700 Method 1, Type 2, Class 1.

DE TRAY PLATING WORKS

NAME: James T. Lister

JOB TITLE: VICE-PRESIDENT

DATE: 10/25/2011

Please Visit our Web Site : [DeTrayPlating.com](http://DeTrayPlating.com)

**MACFASTENERS, INC.**

1110 Enterprise Street

Ottawa, KS 66067

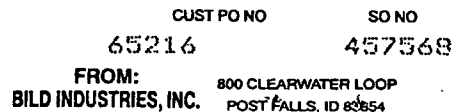
Phone: 785-242-8812

Fax: 785-242-4616

**Invoice****Sold Bld Industries****To: 800 Clearwater Loop****Post Falls, ID 83854****United States****Ship Bld Industries****To: 800 Clearwater Loop****Post Falls, ID 83854****United States****Invoice Number: 52536**  
**Invoice Date: 10/31/11**  
**Customer: BILD**  
**Order No: 41794****Salesman: House**  
**Terms: Net 30 Days**  
**Packing List: 51175**  
**PO Number: 76756****LOT #55814**

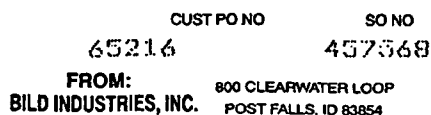
<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Revision</u>	<u>Unit Price</u>	<u>Amount</u>
2	3,720	AN5C7A - Bolt, machine-- Aircraft			

**Sub-total:****Sales Tax:****Shipped Via Roadway Freightways:****Invoice Total:****Paid To Date:****Balance Due:**



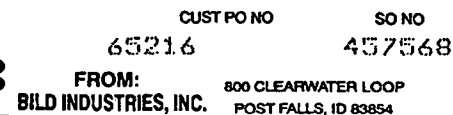
**FROM:** 800 CLEARWATER LOOP  
**BILD INDUSTRIES, INC.** POST FALLS, ID 83854

EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE FL 32904



**FROM:** BILD INDUSTRIES, INC. 800 CLEARWATER LOOP  
POST FALLS, ID 83854

EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE FL 32904



**FROM:** 800 CLEARWATER LOOP  
**BILD INDUSTRIES, INC.** POST FALLS, ID 83854

EAST COAST AVIATION SUPPLIES  
399 EAST DRIVE  
MELBOURNE FL 32904

**CUSTOMER BILL TO ADDRESS**

**COMPLETE CUSTOMER PO NO.**

BILL TO NO.

SHIP TO NO.

PAGE

65216

EC:6001

1

PORT COAST AVIATION SUPPLIES  
377 EAST DRIVE  
MELBOURNE FL 32904

**BUYER NAME & PHONE NO.**

MARYLYNN/E  
MAIL

INSPECT IMMEDIATELY

**Thank  
you  
for  
your  
order**

### CERTIFICATION OF CONFORMANCE

WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THIS PACKING LIST IS IN CONFORMANCE WITH AN-MS-NAS OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.

**CAGE CODE 31222**

DATE  
FEB 08 2013

QUALITY CONTROL MANAGER

TOTAL WT	NO CTNS
----------	---------

NO CTNS
---------

P = PARTIAL  
C = COMPLETE  
CC = CONSIDER COMPLETE  
CX = CANCEL

DATE SHIPPED	SHIPPED VIA
--------------	-------------

SIGNATURE - MERCHANDISE RECEIVED